

CLAIMS

What is claimed is:

1 1. A method for digital watermarking, the method comprising:
2 utilizing a data stream to configure operations of an adaptive computing engine; and
3 embedding dynamic watermarking data within the data stream to provide identifying
4 indicia for the adaptive computing engine.

1 2. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking when the data stream is created by a compiler.

1 3. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking data when the data stream is received in memory.

1 4. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking data while the data stream is transported from memory to the adaptive
3 computing engine.

1 5. The method of claim 1 wherein embedding further comprises adding the dynamic
2 watermarking data when the data stream is executing as the adaptive computing engine.

1 6. The method of claim 1 wherein utilizing a data stream further comprises
2 configuring a hardware state machine within the adaptive computing engine to extract and
3 process the dynamic watermarking data.

1 7. The method of claim 6 wherein processing the dynamic watermarking data further
2 comprises controlling access to the adaptive computing engine.

1 8. The method of claim 7 wherein processing the dynamic watermarking data further
2 comprises logging statistics of the adaptive computing engine.

1 9. The method of claim 8 wherein processing the dynamic watermarking data further
2 comprises performing events.

1 10. The method of claim 9 determining a number of times access to the adaptive
2 computing engine is allowed, tracking a number of times the adaptive computing engine is
3 accessed, and ending access with the number of times has been exhausted.

1 11. The method of claim 10 initiating acquisition of additional fee payment for
2 continued utilization of the adaptive computing engine.

1 12. A system for digital watermarking, the system comprising:
2 an adaptive computing engine (ACE); and
3 a data stream for configuring operations in the ACE, the data stream including
4 dynamic watermarking data to provide identifying indicia for the ACE.

13. The method of claim 12 wherein the data stream further comprises a first portion including adaptive instructions and configuration data and a second portion including data to be processed.

14. The method of claim 13 wherein the data stream further comprises the dynamic watermarking data as a third portion.

15. The method of claim 13 wherein the data stream further comprises the dynamic watermarking data spread across the first and second portions.

16. The method of claim 12 wherein the data stream further comprises data for configuring a hardware state machine within the ACE to extract and process the dynamic watermarking data.

17. The method of claim 16 wherein the data stream further comprises data for controlling access to the adaptive computing engine.

18. The method of claim 17 wherein the data stream further comprises data for logging statistics of the adaptive computing engine.

19. The method of claim 18 wherein the data stream further comprises data for performing events.

1 20. The method of claim 19 wherein the data stream further comprises data for
2 determining a number of times access to the adaptive computing engine is allowed, tracking
3 a number of times the adaptive computing engine is accessed, and ending access with the
4 number of times has been exhausted.

1 21. The method of claim 12 wherein the ACE further comprises a controller, one or
2 more reconfigurable matrices, a matrix interconnection network, and a memory.

1 22. A method for digital watermarking, the method comprising:
2 providing dynamic watermarking data within a data stream;
3 marking a combination of computational elements, configured by data within the
4 data stream, with the dynamic watermarking data; and
5 marking one or more algorithms, included in the data stream and to be performed by
6 the combination of computational elements, with the dynamic watermarking data.

1 23. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking when the data stream is created by a compiler.

1 24. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking data when the data stream is received in memory.

1 25. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking data while the data stream is transported from memory to an adaptive

3 computing engine formed by the combination of computational elements and the one or
4 more algorithms.

1 26. The method of claim 22 wherein providing further comprises adding the
2 dynamic watermarking data when the data stream is executing as an adaptive computing
3 engine.

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